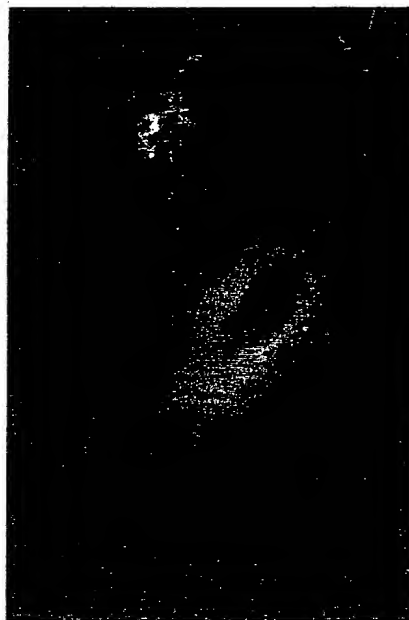




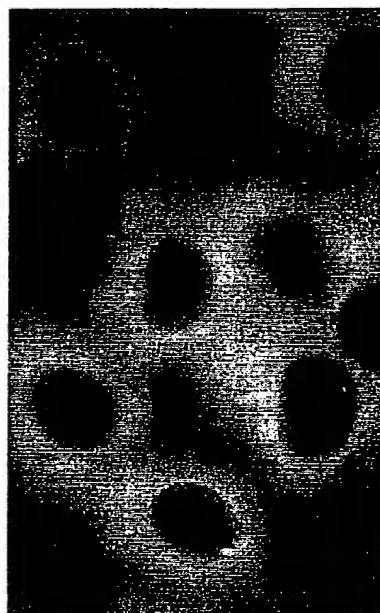
A



B



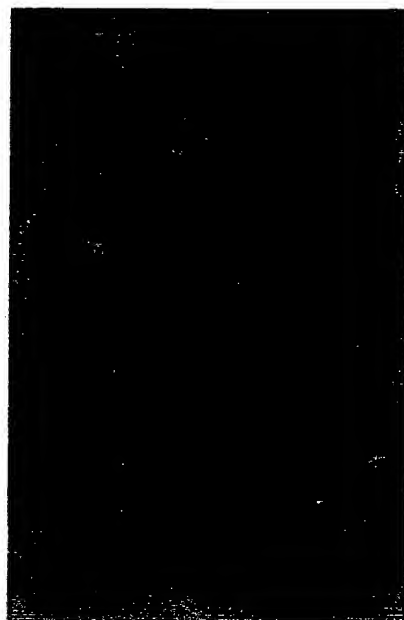
C



D

Figure 1

09/744176-061801



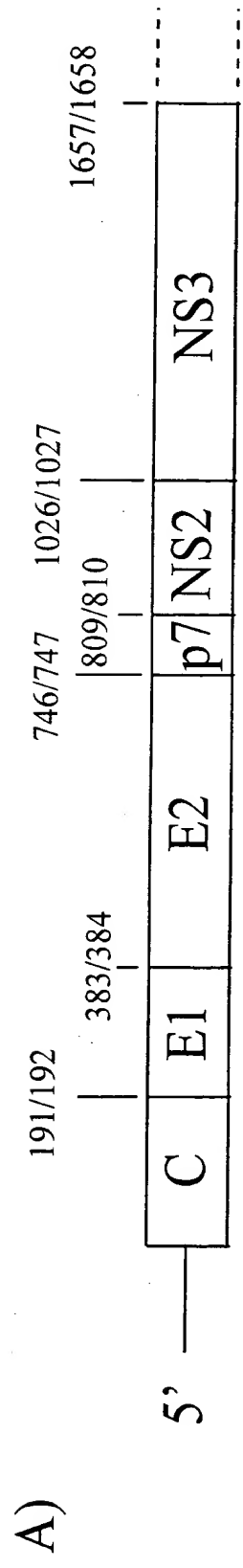
E



F

09/744176-051501

Figure 1 continued



B)

Amino acid boundaries

pCIE2t

340-674

pCIE2α

340-522

pS2.SE2-A-E

A: 384-443
B: 444-503
C: 504-556
D: 557-607
E: 609-674

A B C D E

— — — — —

Figure 2

4/7

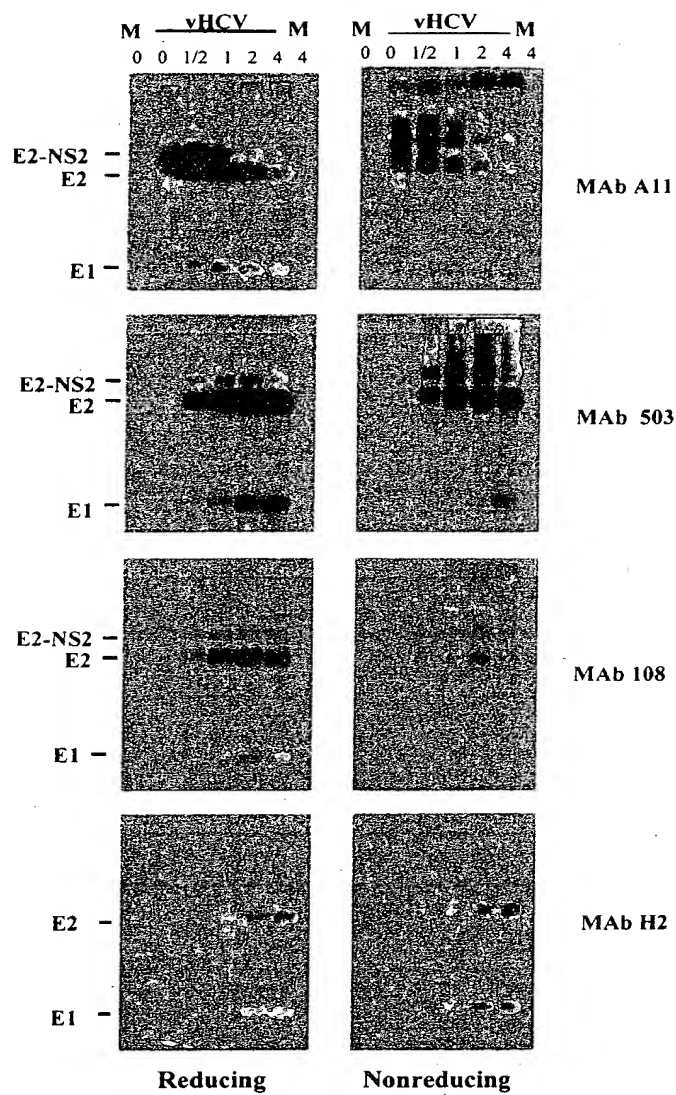


Figure 3

503



108

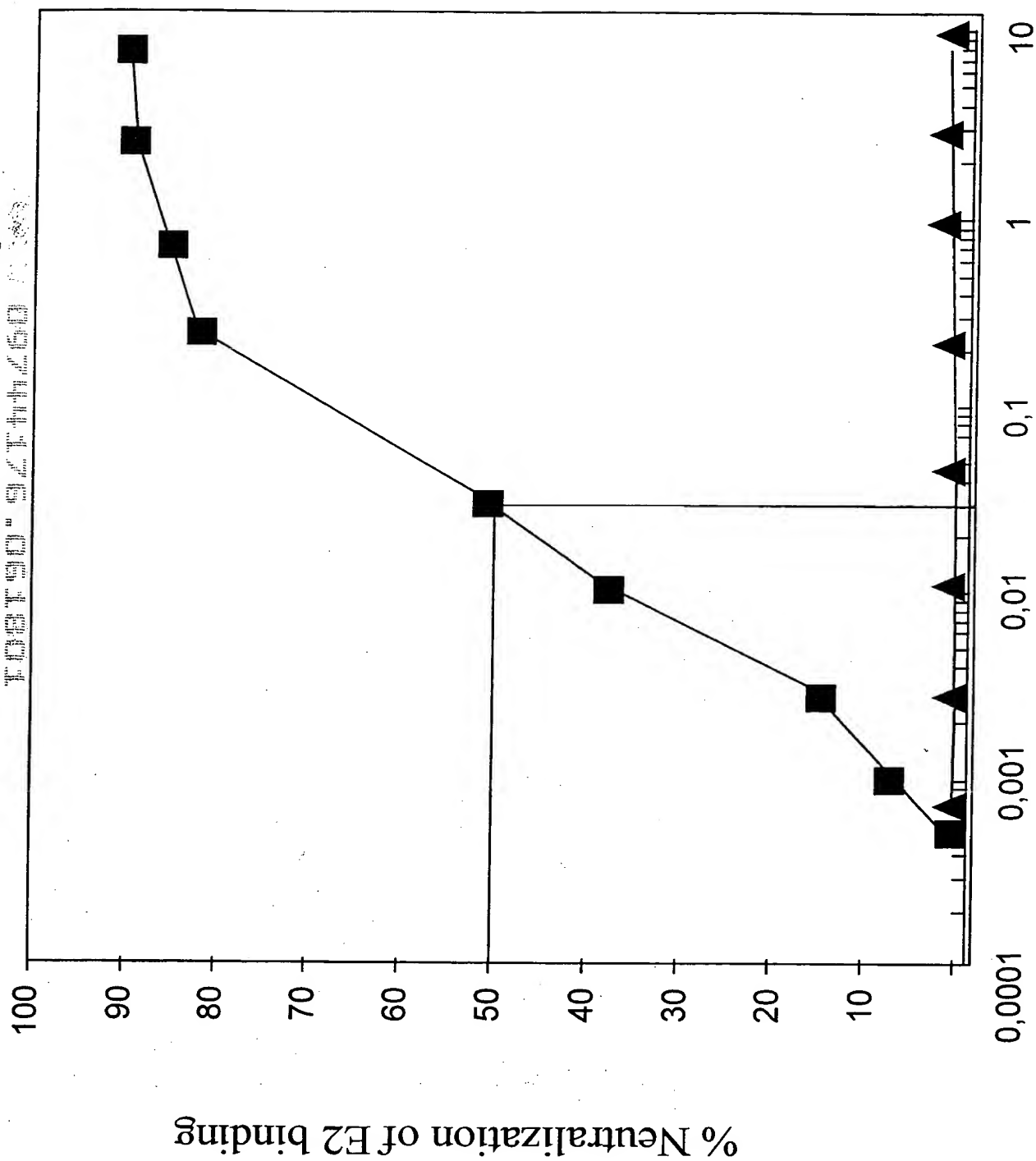


Figure 4

Concentration of HumAbs (µg/ml)

| | | | | | | | | | | | | | | | | | | |
|----|-----|-----|--------------------|-----|-----|--------------------|-----|-----|--------------------|-----|-----|--------------------|-----|-----|--------------------|-----|-----|--------------------|
| 5' | TCT | TAC | ⁹ GAG | CTC | ACG | ¹⁸ CAG | CCG | CCC | ²⁷ TCG | GTG | TCA | ³⁶ GTG | TCC | CCA | ⁴⁵ GGA | CAG | ACG | ⁵⁴ GCC |
| | S | Y | E | L | T | Q | P | P | S | V | S | V | S | P | G | Q | T | A |
| | AGG | ATC | ⁶³ ACC | TGC | TCT | ⁷² GGA | GAT | GCA | ⁸¹ TTG | CCA | AAG | ⁹⁰ CAA | TAT | GCT | ⁹⁹ TAC | TGG | TAT | ¹⁰⁸ CAG |
| | R | I | T | C | S | G | D | A | L | P | K | Q | Y | A | Y | W | Y | Q |
| | CAG | AAG | ¹¹⁷ CCA | GGC | CAG | ¹²⁶ GCC | CCT | GTG | ¹³⁵ TTG | GTG | ATA | ¹⁴⁴ TAT | AAA | GAT | ¹⁵³ AAT | GAG | AGG | ¹⁶² CCC |
| | Q | K | P | G | Q | A | P | V | L | V | I | Y | K | D | N | E | R | P |
| | TCA | GGG | ¹⁷¹ ATC | CCT | GAG | ¹⁸⁰ CGA | TTC | TCT | ¹⁸⁹ GGC | TCC | AGG | ¹⁹⁸ TCA | GGG | ACA | ²⁰⁷ ACA | GTC | ACG | ²¹⁶ TTG |
| | S | G | I | P | E | R | F | S | G | S | R | S | G | T | T | V | T | L |
| | ACC | ATC | ²²⁵ AGT | GGA | GTC | ²³⁴ CAG | GCA | GAA | ²⁴³ GAC | GAG | GCT | ²⁵² GAC | TAT | TAC | ²⁶¹ TGT | CAA | TCA | ²⁷⁰ GCA |
| | T | I | S | G | V | Q | A | E | D | E | A | D | Y | Y | C | Q | S | A |
| | GAC | AGC | ²⁷⁹ AGT | GGT | TCT | ²⁸⁸ TCC | TGG | GTG | ²⁹⁷ TTC | GGC | GGA | ³⁰⁶ GGG | ACC | AAG | ³¹⁵ CTG | ACC | GTC | ³²⁴ CTA |
| 3' | D | S | S | G | S | S | W | V | F | G | G | G | T | K | L | T | V | L |

Figure 5

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5' | CAG | GTG | 9 | CAG | CTA | CAG | 18 | CAG | TGG | GGC | 27 | GCA | GGA | CTG | 36 | TTG | AAG | CCT | 45 | TCG | GAG | ACC | 54 | CTG |
| | Q | V | Q | L | Q | Q | W | G | A | G | L | L | K | P | S | E | T | L | | | | | | |
| | TCC | CTC | 63 | ACC | TGC | GCT | 72 | GTC | TAT | GGT | 81 | GGG | TCC | TTA | 90 | AGT | GGT | TAC | 99 | TTC | TGG | ACC | 108 | TGG |
| | S | L | T | C | A | V | Y | G | G | S | L | S | G | Y | F | W | T | W | | | | | | |
| | ATC | CGC | 117 | CAG | TCC | CCC | 126 | GGG | AAG | GGG | 135 | CTG | GAG | TGG | 144 | ATT | GGG | GAA | 153 | AGC | AAT | TAT | 162 | AGT |
| | I | R | Q | S | P | G | K | G | L | E | W | I | G | E | S | N | Y | S | | | | | | |
| | GGA | AGT | 171 | ACC | AGG | TAC | 180 | AAC | CCG | TCC | 189 | CTC | AAG | AGT | 198 | CGA | GTC | ACC | 207 | ATA | TCA | GTA | 216 | GAC |
| | G | S | T | R | Y | N | P | S | L | K | S | R | V | T | I | S | V | D | | | | | | |
| | ACG | TCC | 225 | CAG | AAC | CAG | 234 | TTC | TCC | CTG | 243 | AAG | CTG | AGC | 252 | TCT | GTG | ACC | 261 | GCC | GCG | GAC | 270 | ACG |
| | T | S | Q | N | Q | F | S | L | K | L | S | S | V | T | A | A | D | T | | | | | | |
| | GCT | GTA | 279 | TAT | TAC | TGT | 288 | GCG | AGA | GGT | 297 | TGG | GCG | GTG | 306 | GAC | GGT | ATG | 315 | GAC | GTC | TGG | 324 | GGC |
| | A | V | Y | Y | C | A | R | G | W | A | V | D | G | M | D | V | W | G | | | | | | |
| | CAA | GGG | 333 | ACC | ACG | GTC | 342 | ACC | GTC | TCC | 351 | TCA | 3' | | | | | | | | | | | |
| | Q | G | T | T | V | T | V | S | S | | | | | | | | | | | | | | | |

Figure 6